



Rising Water:

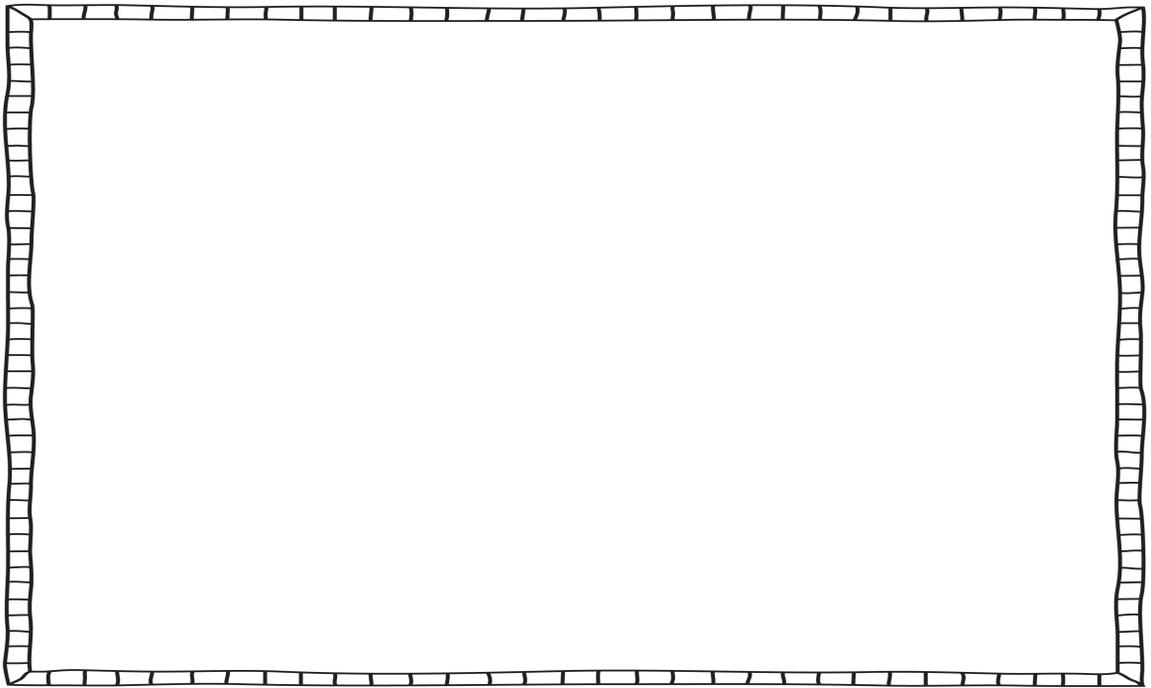
How to make water rise

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Name: _____ Date: _____

Rising Water Experiment

My prediction: _____



Write and draw what happened with the water, candle, and container. Label where the low and high air pressures are.

Rising Water Science Lesson: How To Make Water Rise

Supplies:

- Candle
- Matches
- Pie pan or dish
- Vase, bottle, or jar (glass/clear)
- Cup of Water
- Food coloring



Ask students what they think will happen to the water, candle, and container. Then survey who thinks the water will rise or not.

Directions:

1. Fill a cup with water and add food coloring. This makes the water movement easier to see.
2. Place candle in the middle of pan/dish and pour water in it.
3. Light the candle.
4. Cover the candle with the container.
5. Watch and observe what is happening!
6. Repeat the experiment a couple times to watch it again before you let students what happened.

What Happened:

The candle flame heats the air inside the container and the hot air expands. Once the flame goes out, the air rapidly cools down and the cooler air contracts. The cooling air inside the container creates a vacuum due to low pressure inside the container and high pressure outside the container. Air always likes to go from an area of high pressure to an area of low pressure. Avoid using the term "suck" when explaining the high/low pressures. Since the high pressure is outside the container, the outside air pressure pushes the water into the container until pressure inside and outside the container are equal making the water seem like it is rising.

thank you!

thank you for your download! any questions, please
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